Kirill A Velizhanin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Probing excitonic states in suspended two-dimensional semiconductors by photocurrent spectroscopy. Scientific Reports, 2014, 4, 6608.	3.3	351
2	Surface Ligands Increase Photoexcitation Relaxation Rates in CdSe Quantum Dots. ACS Nano, 2012, 6, 6515-6524.	14.6	128
3	Photoluminescence Dynamics of Aryl sp ³ Defect States in Single-Walled Carbon Nanotubes. ACS Nano, 2016, 10, 8355-8365.	14.6	80
4	Heat transport through model molecular junctions: A multilayer multiconfiguration time-dependent Hartree approach. Chemical Physics Letters, 2008, 460, 325-330.	2.6	78
5	Fluorescent Carbon Nanotube Defects Manifest Substantial Vibrational Reorganization. Journal of Physical Chemistry C, 2016, 120, 11268-11276.	3.1	68
6	Excitonic effects in two-dimensional semiconductors: Path integral Monte Carlo approach. Physical Review B, 2015, 92, .	3.2	49
7	Evolution of Carbon Clusters in the Detonation Products of the Triaminotrinitrobenzene (TATB)-Based Explosive PBX 9502. Journal of Physical Chemistry C, 2017, 121, 23129-23140.	3.1	45
8	Solvent- and Wavelength-Dependent Photoluminescence Relaxation Dynamics of Carbon Nanotube sp ³ Defect States. ACS Nano, 2018, 12, 8060-8070.	14.6	41
9	Meir–Wingreen formula for heat transport in a spin-boson nanojunction model. Journal of Chemical Physics, 2010, 133, 084503.	3.0	39
10	Probing plasmons in graphene by resonance energy transfer. Physical Review B, 2011, 84, .	3.2	38
11	Driving denaturation: Nanoscale thermal transport as a probe of DNA melting. Physical Review E, 2011, 83, 050906.	2.1	37
12	Numerical Study of Carrier Multiplication Pathways in Photoexcited Nanocrystal and Bulk Forms of PbSe. Physical Review Letters, 2011, 106, 207401.	7.8	37
13	An exciton scattering model for carrier multiplication in semiconductor nanocrystals: Theory. Journal of Chemical Physics, 2010, 133, 084508.	3.0	35
14	Crossover behavior of the thermal conductance and Kramers' transition rate theory. Scientific Reports, 2015, 5, 17506.	3.3	28
15	Time resolved small angle X-ray scattering experiments performed on detonating explosives at the advanced photon source: Calculation of the time and distance between the detonation front and the x-ray beam. Journal of Applied Physics, 2017, 121, .	2.5	28
16	Adsorbate Transport on Graphene by Electromigration. Physical Review Letters, 2012, 109, 095504.	7.8	27
17	Tunable thermal switching via DNA-based nano-devices. Nanotechnology, 2013, 24, 095704.	2.6	23
18	Photoluminescence Intensity Fluctuations and Temperature-Dependent Decay Dynamics of Individual Carbon Nanotube sp ³ Defects. Journal of Physical Chemistry Letters, 2019, 10, 1423-1430.	4.6	23

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19	Tunable Adsorbate-Adsorbate Interactions on Graphene. Physical Review Letters, 2013, 111, 115502.	7.8	21
20	Topological quantization of energy transport in micromechanical and nanomechanical lattices. Physical Review B, 2018, 97, .	3.2	20
21	Thermal transport in dimerized harmonic lattices: Exact solution, crossover behavior, and extended reservoirs. Physical Review E, 2017, 95, 012137.	2.1	17
22	Numerical analysis of carrier multiplication mechanisms in nanocrystalline and bulk forms of PbSe and PbS. Physical Review B, 2012, 86, .	3.2	15
23	Geometric universality of plasmon modes in graphene nanoribbon arrays. Physical Review B, 2015, 91, .	3.2	14
24	Electromigration of bivalent functional groups on graphene. Physical Review B, 2014, 89, .	3.2	13
25	Controlled dynamic screening of excitonic complexes in 2D semiconductors. Scientific Reports, 2018, 8, 768.	3.3	11
26	Topology, landscapes, and biomolecular energy transport. Nature Communications, 2019, 10, 4662.	12.8	8
27	Probing Interband Coulomb Interactions in Semiconductor Nanostructures with 2D Double-Quantum Coherence Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 5372-5382.	2.6	7
28	Automated fitting of a semi-empirical multiphase equation of state for carbon. AIP Conference Proceedings, 2020, , .	0.4	6
29	Multi-exciton emission from solitary dopant states of carbon nanotubes. Nanoscale, 2017, 9, 16143-16148.	5.6	5
30	The equation of state and shock-driven decomposition of polymethylmethacrylate (PMMA). Journal of Applied Physics, 2022, 131, .	2.5	5
31	Renormalization of optical transition strengths in semiconductor nanoparticles due to band mixing. Chemical Physics, 2016, 481, 165-176.	1.9	2
32	A spin-1 representation for dual-funnel energy landscapes. Journal of Chemical Physics, 2018, 149, 035101.	3.0	2
33	Exciton relaxation in carbon nanotubes via electronic-to-vibrational energy transfer. Journal of Chemical Physics, 2019, 151, 144703.	3.0	2
34	An experimental study of the solubility of rare earth chloride salts (La, Nd, Er) in HCl bearing water vapor from 350 to 425°C. Geochimica Et Cosmochimica Acta, 2021, , .	3.9	1
35	Kinetics of carbon condensation in detonation of high explosives: First-order phase transition theory perspective. Journal of Chemical Physics, 2021, 155, 164302.	3.0	1
36	Reshock analysis for PMMA driven above the threshold for chemical decomposition. AIP Conference Proceedings, 2020, , .	0.4	1